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PRELIMINARY GER REPORT ON THE SUITABILITY OF MOUSE VIRUS AS A BASIS
FOR AN ADSORBATE VACCINE AGAINST FOOT-AND-MOUTH DISEASE

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The susceptibility of suckling mice to foot-and-mouth disease of cattle, a phenomenon established by Skinner, can be confirmed in a number of ways. All three types of the virus reproduce well when introduced by intraperitoneal injection into suckling mice not more than 10 days old. Using a virus passed through mice in this manner, with an infectiosity titer of 10^{-9} as a basis, monovalent type-C adsorbate vaccines with 1%, 2%, and 5% of mouse virus content have been produced by standard methods.

Five head of cattle inoculated with a 30-cc dose of the 2% vaccine and five, with the 5% vaccine, proved to be fully protected when exposed to a highly virulent homologous production virus 4 weeks after vaccination. One of the five inoculated with the 1% vaccine developed a local infection, i.e., without generalization, 43 hours after exposure. The noninoculated control animals developed a generalized form of the disease 24 hours after exposure. Similar tests are being conducted with type C and type A. The length of the immunity period is being investigated in the experiments with types C and A.

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